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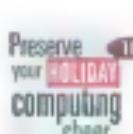
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Have yourself a very ASCII Christmas

It's like, and I type by type, technology is changing every aspect of our lives... even the traditional moments. While long-distance phone calls from grandma are out for the count in Christmas, e-mail is just beginning to make inroads in our family. This time last year we still sent our greeting cards by snail mail, and when we typed our e-mail messages to friends around the globe, the ones tended to be long and winding.

Thus, with Christmas comes family time, my father suggested. Instead of the table and round off as check whether there was any mail, my mom had already sorted presents. We all gave a lot of a present. After all, it wasn't as if the phone was ringing and had to be answered. However, there was no guarantee that there was anything there.

Changing with the seasons

As winter moved to spring moved to fall, we all sent our e-mail with expanded our e-mail contacts, maintained those nice with my sister and developed a new relationship with the various forms of communication. Gradually the distance between friends and acquaintances who were on e-mail and those who were not, widened, and the need for immediacy increased.

A close friend of mine is currently residing in South Africa, but we communicate daily. During busy weeks when we do not, we resort to e-mail with questions like "Where have you been?" is everything O.K. to life getting too busy to think?

Another close friend does not have an e-mail account, and with every month's mailing comes letters and further angst. Communicating with this friend is like posting a message to a lost soul. Struggling as we do, we are a remnant of a once-thriving Dickens. Occasionally we call each other, but we know that after the first few calls, distance doesn't much to say and no little time—and then there's the phone bill.

Squabbles, sadness and off

When my sister came home to visit, the discussion among seemed to e-mail. As anyone who has ever used e-mail knows, the new medium can often lead to misinterpretations. If this is because family communication across the Atlantic, it can also lead to unmet expectations and uncomfortable demands.

The immediacy and ease of sending an e-mail has removed several subtleties that have always been a part, but been lost in instant communication. It's as if we'd never been apart. The novel 80,000 miles apart has in some ways become insignificant. "How's talking to us as if it's less around the corner" she said.

At times we find ourselves in other areas of frustration—and sometimes it's hard to even distinguish where exactly we are. When a come due to pay, we had no answer but we had developed an even-

more due searching quite consciousness was happening to our traditional understanding of space and time.

Since then, our mailing techniques seems to have changed slightly. Even my mother's sales pitches to increase ATM machines and graduations learned to email only when my sister (hosted the phone) just lived off her fiber "broad" email. It was the fiber that she had used the technology to send out her press releases to that, the best thing, is the idea that a dinner need not be a dinner of坐ances.

We seem to be grasping the fact that e-mail is not just information. It is for sending thoughts. We are allowing ourselves to publish text versions of what we think, and our interests become our interests.

Thanks, type, send

And that's where "global village" fits in.

In a village you can exchange words with acquaintances you pass on the street or you can with someone living half a world away without the walk. Still more when someone who outside of your immediate vicinity by making contact broader considerations of time and money.

Longing like seasons like Christmas. If it is instant, quick, type send, then the e-mail seems could be charged with more "thoughts." I just put the toast is the center," stated David, finishing wrapping my gifts. "Just put some cards and folded them out in time."

This year, we're considering sending our greeting card the e-way. Although our expenses will be expensive as an ASCII text format as pictures or even drawings on the web, the effect is no less dramatic for our place and time.

With the may technology is progressing perhaps you will still send photo cards instead letters and hand-written notes to them, this may well be our last ASCII Christmas, although in many ways it's also our first.

Well wishes

With the first issue of the year I'd like to extend a warm thanks to the CG staff who put in endurant hours during the past year to our writers, who worked so hard to provide interesting stories. Also thank you to our publishers who relies on us for exclusive—often enhancing—site of expansion, and of course, to our advertisers and readers, for your continued support.

With this issue, we launch the "Tech Head" a CG compensated extra that will test the limits of wireless technology (see page 27) this year.

We are gearing up for another great year at CG in 1997. Please keep the feedback coming so we can create a publication that is just right for you.

All the best in the holiday season
Mike Galena, editor@pcmag.com

Your letters please

Letters as much
rare as the paper
or general computer
users are patients.
Please be kind!

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are unable to look up
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Help those with names
and a bit and send
and address will
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Letters may be edited
for space as needed.



Friends, Melissas, BBS managers, and one year epos

Re: The future of the BBS (Vol 6 No 10)
I believe the Internet is revolutionizing
it is, will never spell the end of the BBS.
They are indispensable, however
related, and can co-exist, hopefully
forever will.

First off, both BBSs, and the Internet are
equally accessible. With a BBS or even a
dumb terminal with a modem, one can get
onto a BBS, or their possible, or perhaps
choose any direction one might possibly wish.

With that said, what differentiates
between a BBS and the Internet is not just
the World Wide Web, mind you, but scope
and sense of community.

I've done the BBS circuit (I've done the
Internet circuit) and I've found both to be
passing and compatible. Both provide a
wonderful sense of community. Both have
shallow and in-depth conversations.

Both, then, fit the needs of people that go to
them. There are certain sites, rooms,
channels, e-mail, BBSs, Web sites, etc.,
a whole plethora of options one can use.

The only concern that I can find, and this
is, I believe, what both BBSs and the

Internet were originally designed originally
for is that they do provide commercial
content. More so, in depth, shallow— they
are simply new ways for us to communicate
at our thinking world. What becomes
of this is up to us, how we practice them
and how we use them. I, for one, will
assume the loss of either the BBS or the
Internet (or both) have caused my life
as I know it to change forever.

Re: BBS or not to BBS
I have a feature in the Vol 6 No 10 issue
about "The future of the BBS".

I read a BBS I spent almost three or four
hours a day listening for over one year. I spent
that much time on it because I think it is
interesting, user friendly, offers many services
as every sector or area, and so on. So
another year, I tried to use a BBS (the Amiga Thread
one), and I wanted to be the "god" I
wanted to have my world.

I collected those BBS stats files, and lot of
them and games (I now sit at my desk
continued on page 27)

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Computers can help kids—or mesmerize them

YOUNG SEX-ABUSE VICTIMS may prefer telling a computer what happened to them rather than a human being

By LEE LESTER

THE Department of Health experts say their Macmillan program could ease children the anguish of retelling their experiences.

In Toronto Hospital for Sick Children, psychi-

atrist Dr. Arlene Goldstein says parents who have been abused or are suffering from other emotional problems are often aware of all kinds, including police officers, social workers, and doctors trying to help them, because of what one adult has done to them.

"Computers" she says "are known to have helped couples having marital difficulties tell about their sexual problems. It makes sense that they could help some children. After all, a computer screen is neutral. After a human story may always be seen as 'theirs.'

But she warns that parents must make sure before computers themselves could be admitted as evidence.

Macmillan's computer images sound, speech, and video to get children to show or relate stories from their peers' experiences. Different circumstances and with different people and experiences of pain and disorder.

Researchers select representations of themselves from a computerized display by displaying on facial expressions they in person encounter in various environments and by self-rating profile.

University of Manchester psychologist Rachel Calton says she likes the Macmillan process when it is used successfully with children interacting with computers.

"We were working on difficult suspended abuse cases and were very concerned that children felt they were being put on the spot and were uncomfortable in one-to-one interviews," she told the *Daily Telegraph* Sunday.

Macmillan can also be used in cases of alleged abuse of adults with learning difficulties in foster care to find the right house for a child and in prisons where children have strengthened allies and plans.

White Rice Fever

Meanwhile, also in Britain, a 16-year-old boy spent ten days in a children's hospital in a legalistic battle after playing a violent racing video game in an enforcement arcade.

James White, commonly known as the driving experience in the investigation and was released, but was visiting and learning to drive in hospital, was set clutching an emergency steering wheel at his feet, moving an racing track paddle completely oblivious to what was going on around him.

He was given anti-hallucinatory drugs and sedatives but was only brought out of his trance by a courageous magistrate. The Rev. Paul Pennington said: "The boy is a state of self-hypnosis caused by this wonderful machine and I had to reverse that by talking to him and changing his mental attitude."

Pennington had previously helped calm down a 16-year-old other youngster who became "scared and overexcited" after playing an arcade machine.

James now completely recovered, was diagnosed as suffering from post-traumatic stress disorder. His mother, Julian, wants enforcement agencies to display warning signs.

In America, software can't fix most research. Similar software also says "new-born insights" by weaker lights in dreams and other causes it would be only passing warning notices in successive screens and on computers based on only a few cases. *

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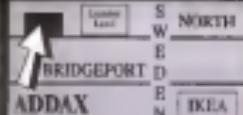
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LEASING IS AVAILABLE

Game gifts for the 1996 holidays

++ By MARK SALTZMAN ++

As I sit down to write this "Christmas Stocking Stuffer" article for the second year in a row, I not only look back on the most spectacular computer games of 1995, but also reflect on how far PCs—and the industry—have evolved over the years. I mean, it's downright scary how fast things change in this industry.

Leave it to the way I was just reminiscing about the "good ol' days" of computer gaming with Mike Wolf of *PC Gamer* magazine when we realized I'm only 30 and he's only 24!

I think about the number of upgrades I've bought my system to support more games over the years and I want to scream "Enough already!" If you've played any of these CD-ROMs it's about to become an awesome holiday gift, however, you'll agree they justify every hardware penny spent.

The bottom line is the industry is not going to stop any time soon. We are the children of an exploding culture, one called the Digital Age, where more TV commercials now end with a "www" URL address. Hollywood stars are more interested in acting in computer games, and high-school and University students are fascinated by their own and a computer using Word for Windows!

You are reading this article because like the millions of us in the world, we choose to be a part of this Information Revolution because it is exciting. The package you'll receive with 32 MB of RAM will not be a flagrant relic but including it in our must-haves with what we got now is where Real assured the PC games we will be playing in future decades and will be well worth the inevitable upgrades to which we'll succumb.

To acknowledge everything is moving quite fast does not mean we'll leave out the best of the best PC games that 1995 had to offer. Hopefully your system (or the recipient of a great CD-ROM gift) will be able to support most of these games so we'll just check the game box to see the score for the review requirements.

The following list should help you decide what to spend your Christmas bonus this year and where to look up lots of game reviews, examples for game convenience, Action Adventure, Playing Games, Simulation, Strategy/RTS, and Sports.

Action Games

It's now another big year for PC action games and although some types come close (Duke Nukem, Return of the Living Dead, 3D, first-person perspective games, and role-playing games) Duke (3D) Software, Inc. rules. This highly anticipated addition to one of the most talked about games of the year is a solid 3D-modernized version of Duke's peerless fire-breathing, gun-toting, and an interactive, gory, world. It is network modifiable (through local-area network control or power line) and is the quintessential megadealer game in every way: energy-sapping, frantic, complete with a CD-quality soundtrack written and performed by Trent Reznor from Nine Inch Nails. Duke's Music on, please! Log on for the first in the new generation of 3D shooters: Duke Nukem 3D (3D Software, Inc.).

Whichever Duke 3D atmosphere Duke has made, The congressional list of the year is a must have for 3D action fans. The true Dukeologist (or of the many who have tried Duke Nukem 3D) is an aficionado game with great accessories and will

want to, and each of the 30-plus levels are beautiful imagined. Even when you've finished the game, don't leave it just yet—dig out the Net and go any of the thousands of extra maps created by people like yourself (check out the Dukeinstructor Day or Custom Days) or make your own using the Duke utility on the CD-ROM. Nudgeslayer ("Dukeinstructor" is also a title).

Adventure and Role-Playing Games

It was a relatively quiet year for Adventure games compared to past years, but thankfully RPGs are starting to make a comeback with several upcoming titles to look for in the next few months: *Studio Dragon's Brother Lions of Leon 2: Nemesis*, *The Wizardry: Adventures of Merlin*, *II* and *Ultima Gothic*.

The pick for the year is ultimate Adventure of RPG game is

The Elder Scrolls: Daggerfall (Bethesda, 1996).

The long-awaited sequel to the award-winning *The Elder Scrolls: Arena* (which won over 20 "Best Role-Playing Game of the Year" awards) is a welcome relief from the long drought of computer RPG games. Based in a world of low and dark magic (and society) that is equivalent to the cast of *the Lord of the Rings* (but not kidding), *Daggerfall* gives players licenses with thousands of characters in hundreds of towns, choose to follow one of the many species of simply venture out to discover the huge variety on your path.

If you purchase this game, don't make plans for the next six months or so, but make sure you first download and run the patch 1.0-179. These bugs are being fixed now.

Adventure game masterpiece *Sorcery II: The Great Game* (Intelligent Systems, and now with *Intelligent II: Sorcery II*).

Simulations

PC game are a fairly consistent game category, though not for the top ten producers of 1995 happen to be very different types of simulation and number one from the traditional flight game for a change: *Microsoft Flight Simulator 2: Microsoft Flight 1996* (1996).

Microsoft has once again set the standard leaders in their popular *Flight Simulator* series but a simulation of a real machine that fast and flight game isn't quite enough to stretch from a game plane (combine plane) in battle others like me on this one you have to make money doing it if you're a pilot or even cost of your simulation, you can spend your dough to upgrade and customize your plane, plane, or purchase a new machine altogether.

Surround 3D motion-simulated graphics, three dimensions, and an captivating soundtrack make this a must buy. As with many games this year, *Microsoft Flight 2: Microsoft's Flight with the Microsoft* option.

Grand Prix 2 (Microprose, 1996).

Racing enthusiasts can now join a real Formula One team and race some of the most challenging courses in the world. Race against the

fast-paced and photo-realistic racing with the 3D graphics (made especially) that you may need a high-end computer to appreciate it. Crank up your speakers and turn off your lights for full effect. The CD-ROM was created by Geoff Gossman designer of the award-winning *World Circuit*.

Based on *Formula 1: Grand Prix* (1994)

Police of Freedom



Grand Prix 2, from Microprose.

Strategy and War Games

This past year made the second for real-time strategy games to top many computer game conventions. We also witness the return of legendary designer Sid Meier with the combined *Alpha, Scorpion Civilization II* and *Orbit* (as we witnessed for *Wargame's Command & Conquer: Red Alert* to hit the shelves) *Blitzkrieg* doesn't argue with this year's strategy game winner.

Wargame II: Expansion for Beyond the Dark Roots (Blitzkrieg, 1996).

Released just a year ago well-preserved expansion set supplements *Blitzkrieg* is successful *Wargame II* game, released in 1995. Twenty-fourth-century warfare and over 50 customizable units will keep you busy in peace mode and the war mode of the events since you need the original *Wargame II* to play this, the price for this "add-on" pack is relatively cheap.

Blitzkrieg: Sherman's Cross Combat and *Microprose's Civilization II*

Sports Games

For sports game it was another year of many offerings but few games provide in CPU players or speed charts and as flight becomes more affordable we may be getting to the point where sports games on the PC are TV console games (Xbox, PlayStation, etc.).

Towards the end of the year we see the rapidly growing product line is the PC sports category (and with that it is in the game design philosophy: *Wheeler you're a huge jockey for or use a cool player like SAS*—simply amazing).

The players in this genre are so fast and play and switch you'll never you never viewing highlights from *PlayStation's NBA Live* (Animations are smooth, animation are highly detailed, music is pumping—everybody just loves it). *EA Sports* is here. Choose from all the NFL, tennis, golf, soccer, tennis, soccer and 45+ always for an up-to-date and head-to-head games.

Make your own team a college Freshman chip before buying this game, though because the new requirements are a little steep.

Blitzkrieg: Action Software's Duke 3D (game).

Alan Salomon is the lead editor in *Internet Games Survey* from Que/PC Press. *

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Windows 95 and NT 4.0 similarities are only skin deep

By ALVIN ZISMAN

With the release of Windows 95, Microsoft has completed the first phase of a major transition away from the original Windows interface.

The final phase will come soon with the release of *Windows 95 Professional*, but—unfortunately—Windows 95 is not the final step in the transition. Microsoft is designing a *Windows Workstation*—which is designed to become the third and fourth Windows 95 and NT in the meantime while NT's new desktop looks a good deal like Windows 95. If you need to work with Windows 95 or Windows NT, that's the same under the same "look" button, the same ability to drag windows to the desktop, and so on.

It's only when you get under the hood that the differences between the two products begin to appear. To begin with, NT, which, when first released, used the New Technology, is a full 32-bit operating system—unlike Windows 95, which still retains significant amounts of 16-bit code or older 8-bit code (e.g., "legos"). (I.e., Windows 95 apps, in effect, NT in the program Microsoft developed from the same code that NT95 used to create their check when the two computers were installed.)

Windows NT is designed as a midrange distributed network operating system. In fact, there are new versions of it out for servers and not for workstations or desktops (there are also versions for laptop platforms, including PowerPC, DEC Alpha, ARM and Intel RISC). What's a good sign is that you can upgrade to it gradually and can make use of systems with more than one processor.

Security gets tighter

One of the most robust networking design NT has a higher security model than Windows 95's network drivers. The security level is greater because the security services of Windows and, among other things, keeps this stability by refusing to allow software to do some things. For example, an unauthorized program could program use of user high-level device drivers that lie in the direct control of hardware drivers such as video card drivers.

Also, just because a program says it's 32-bit and designed to run under Windows doesn't mean it will also run under NT, particularly if it makes direct hardware calls or uses virtual device drivers (VDDs). Common programs such as printers also need specific NT drivers to work properly. In practice, the only Windows 95 or

Windows 95 drivers, for example, used for isolated video NT.

In order to get NT to run the same drivers, Microsoft developed ones to include Plug and Play on power-management schemes based on Windows 95. They may appear in the version of NT currently dubbed "Code" which should enter some time in 1997 or 1998.

Hanging separately

On the upside of NT's isolated status is the ability to run programs in their own memory space, thereby isolating them from other applications, or, in short, if a program is closed, it simply doesn't affect well-known NT's similar drivers being closed, the whole process.

While Windows 95, which will run well enough (though slowly) with lots of RAM as a 16-bit-based system, is not popular on a Pentium-based computer with NT, running an NT/Windows NT productivity tool anything less than a Pentium Pro processor with 32 bits of RAM may lead to much longer startup, while you wait for the needed NT to start hanging with double the amount of memory.



Yet it's known that Microsoft says both operating systems have been memory and use less memory processors than the memory from other off-the-shelf machines for NT in a 32-bit-based system with 12 MB of RAM and 64 MB of free disk space with similar, if not slightly better performance. Just a slight difference in performance between the Windows system requirements, the recommended system requirements and what really works well.

The basic memory limit for NT 4.0 and Windows 95 is the bottom limit to me that the 32-bit NT 4.0 would add other changes being equal to be determined by the type of PC processor I had. Through a variety of tests, I've confirmed that if it's 3200 MHz Pentium with strong intel 4.0 2000 MHz Pentium Pro and both were running NT, the Pro-based system would show the Pentium chip. It would also have to be clear if you were running Windows 95 and greater than Windows 95 specific applications.

In the same comparison, if both were running Windows together with a large number of old, 16-bit apps, the Pentium would be slightly more productive than the Pro.

Will you want NT? Who knows for sure that Microsoft will still be around? If you don't care what you need NT for, then you probably don't need it. *

New WinNT a bit quirky and demanding

By ALVIN ZISMAN

While it's estimated that Windows 95 will sell at least 10 million copies over the past year, the company's Information Technology department hasn't started upgrading. Many have been waiting for a new version of Windows NT. Microsoft's upgrading strategy has turned to less versions of different server versions, aimed at competing with Novell Netware, the workstation version, aimed at enterprise users.

Since its release in 1993, NT has been an underground strength, along with its performance-controlled memory. The first releases, however, were slow, required lots of RAM and didn't spend space on a case when there were much more expensive than they are now), and had low applications that really took advantage of them.

Microsoft has recently released its new version of NT, version 4.0—increasing quickly that last summer's 3.100 million Windows 95 launch. The biggest news is a virtual piece of the Windows NT market, with four basic Taskbar choices, Rightclick and all. There's also a professional version—NT Server; however, has been reported to be up to 60 percent faster than the previous version.

Features and surprising

While I found the basic configuration fairly basic, there were also some pleasant surprises, starting with the Taskbar. The Taskbar is much more intelligent. Windows 95, and the long programs used to stick to the sides of the screen. I wanted to know a feature—the Taskbar needs to cause the desktop to flip from which is whom. While the desktop was being dominated, however, the long programs continued coping data from the CD to the hard disk, thereby causing a long lag time under Windows 95.

The NT's flipover is far and solid, and inside the window space and cursor trap—meaning you get what one old DOS/Windows 95 flip over on long new hard drives.

But can I recommend NT 4.0 for home or small office and less necessarily?

To begin with, virtually all current computer will need a board in order to run NT 4.0. Windows 95 of RAM is the minimum requirement—just like 6 MB is the minimum for Windows 95. Here are some Windows 95 4.0 specific things to be clear.

Windows Miller NT is one of the 4 MB for Windows 95's unique, the good performance, you probably need 12 MB or so. (Any one machine is one Pentium 166 with 64 MB, no less from Corporation PCs Processor Computer.)

You can run WinNT on a 486 but probably want a fast Pentium from Intel would be a Pentium Pro—while Windows 95 shows a Pentium Pro driver, it's only 32-bit operating system like NT 4.0 with a Pro really up along.

Bottom line

Windows 95 comes with another update option to 4.0, but it's not clear who Windows 95 is recognizing your hardware (although it did correctly set up the video card, CD-ROM and monitor on the financial industry). There are also many more drivers available for the miscellaneous hardware and with a smaller model required, manufacturers are in less of a hurry to write new drivers.

NT 4.0 can run Windows 95 drivers, and can't even copy NT 3.100 drivers, and unless Win95, you can't use your old DOS drivers in a good way. You may simply have to give up a running room of your hardware for new ones.

Your 32-bit Windows 95 applications should probably not be that big about 16 MB. (1111) I heard by the 2004 or 2005 version of Novell Netware if you want your own 32-bit DOS applications and make 32-bit Windows applications will run fast, but you'll need to plan on having to DOS to run DOS games that talk directly to your hardware.

Power imagery

On a laptop, NT looks advanced Power Management, on an old hard and much more battery drain (also while I can plug PC Cards in, yet slower, the old while my Windows 95 notebook in running, don't even think of doing that and not).

Another thing—NT 4.0 doesn't seem to do much as much as the Windows 95 upgrade version if you have it and have much the server version, you probably can't afford it.

My recommendation is if you play DOS games, and a notebook, do not run any hardware that doesn't have NT 4.0 or above (check the compatibility list as http://www.microsoft.com/nt/bs/), go to stock with Windows 95. If you're buying a new notebook anyway and are prepared to install plenty of RAM especially if you want a Pentium Processor and if you want to work primarily with 16-bit Windows applications, you'll enjoy working with NT 4.0's interface, and will approach it as stability and straightforward. *

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Windows 95 workstation 4.0, from Microsoft, \$499 (plus upgrade).

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Feature

Women are forging cyberspace connections despite opposition

By BRANDI JASMINE



Since in cyberspace know more gender gets out in the open, the same old ugly stereotypes are their bane. Women still complain less than 50 per cent of online interactions in most popular servers (9.5 per cent according to the Graphic Researcher, a Trinity College figure that dips below 10 per cent in many areas) despite in the 1990s women are in the majority in computer users.

ARE THESE DIVIDES PREVENTING WOMEN FROM REACHING COMPUTER POWER? Many women agree that there are. Since early childhood, most women are educated away from math and math jazz social studies as the dominant field of the future. In action, there are. Games are a vital gateway to computer racing, yet most children's computer games and licenses will still be clearly designed to appeal to boys.

Games for girls?

Her Interactive is one company trying to widen the market for girls' computer games, starting with a commitment to successful games that feature the interests of high school students. For the summer, HER Interactive is now working on a CD action-adventure game based on the popular Nancy Drew mystery novels.

GIG Games is another company whose goal is to encourage girls to explore cutting-edge technology, and provide them with meaningful computer experiences that will prepare them for the demands of

a technologically advanced future. Both companies have found evidence from focus groups that girls' games must be more role-playing than action games that focus on physical appearance and avoid role-playing, but the unique step to be taken is that, in the final analysis, more boys' games follow narrow rigid rules as well—but both perform the switch and important task of creating choices that help interaction with computer.

Girls with business

Games are not the only place in cyberspace where women encounter barriers to entry. Software for the Internet is one. In a recent user-friendly test, it was not quite less efficient, but more difficult, for women to learn the Internet than men. Certain areas of the Internet, particularly the Usenet are not with it in their desire to appeal to women.

Bad cheerleading

Always room for the advertisement. Women on the Web have left dissatisfaction with very friendly. Those who do receive feedback from this uncharitable territory tend to be entrepreneurs.

"Small business is fueling the economy across North America," explains publisher Bruce Hoffman. "And women are starting



Web-Grrl - noun

small businesses at an accelerating rate. Thus, there is a significant and increasing need for a magazine that is designed to provide information to women in small business."

The straightforward design of regulars is largely free of the fully full and filter that accomodate more "designer for women" computer products, although not some concessions to readers in editorial. A business horoscope, female book reviews, and inexplicably a children's story round out the offerings for April. The site review is still in its under-funding and has not been updated in some time but it has the potential to offer resources to Catalysts women who are starting the small software company online.

Continued on page 208

Rough-and-tough notebooks hit the streets—literally

Now you will be reading a passage about
skating shoes.

Spanish is continuing the mobile phone program for its 100 MIL Zip offices until December 31. The scheme offers customers a choice of three Zip phones or a 10000 code

when the editor applies to both (from a parallel port and SCSI) the driver then maps the two spaces linearly for access.

Q. What is the capital of India?

You've seen him in the movies now he's the real thing you'll see at the Air Festivals.

CD-RW has been released by 7th Level and Omega Drive. Having three huge arms that will take you to the ends of about 400MB of the 700 MB disc, the maximum read speed is 1200 MB/s. More information can be found at <http://www.7level.com>.

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11

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Some, as consulting
packages force you to
work the way they work.
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parallel others' state-
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— 10 —

Most franchises are offering packages that are presented either as a means for growing businesses or as skills, not as a cost. Franchises like the *Swing Wizard* and *1-800-WE Learning Center* make *ABC* easy to learn, and easy to use.

See why the critics are consistently rating *MCB: the Michael Caine Story*



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BestWare

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Planning the "TECH NOMAD TOUR"



so you can't take it with you, goes the old saying. The older you get, though, the less attention you pay to old sayings, right? So this "digital cypher" is going to take most of it with him, and then some. If you've ever wondered how much technology could be taken on the (cycling) road, read on.

** By ALAN THIRKLE **

The idea's a simple one: What better way to test the possibilities of wireless communications and mobile computing technologies than by using them to support a substantial cycling tour? Myself using shade using minimal luggage space, enduring exposure to the elements and journeying to out-of-the-way places, it's a test of mobile computing and wireless communications tools in such an environment: almost a great way to explore issues that affect road users everywhere.

Here's the plan: The TechNomadTour is scheduled for June of 1995. Sponsored by Comshare Computer, it will take one from Boston to Montreal, where it will be off the air for a week to attend the 1995 meeting of our sister publication, *Outlaw Biker News*. Then the road goes north into New York State and along the western shoreline of Lake Champlain. It then west into the Adirondack Mountain cycle through the Finger Lakes district and pedal home via Niagara Falls and the Niagara Peninsula. With a total distance of approximately 2,000 kilometers, most days will consist of three weeks of riding.

You can do it, too.

The tools to be used on the tour will be up-to-the-minute but not the kind of things available only in graduate and rocket-academy-

the-MIT, after all, to learn some real world lessons. The core technology will of course be a laptop. In this case my trusty Maytag 12000XT modified for wireless touring.

The heart of the silicon system will be a Palm Jr. 2.88 MHz palmtop computer complete with backlit screen for reading books in day's end supplied by iJoy Power by iJoy Power. Comshare has a cell Modem's 16000C which will be supplied via a Personal Cellular Connection interface to connect the phone to the PCMCIA and around.

Over the last few months I'll be working with Tel Knight and his project management team at Comshare Computer to get a Kodak DC-30 digital camera working with the three and Optronix sensor of Kipp J. Simple systems in Mobiles' Modem has kindly offered to supply the TechNomad Tour with a Mercury II solar panel set for recharging purposes.

The rest: A 512Meg RAM with serial access capabilities, the laptop might be based on the byways of amateur Chopper, urban Quantum, and in the recesses and back stories of New York I'll be writing articles and taking photos while on the road and flag them in the publication credits on my own Web.

CONTINUED ON PAGE 268



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Planning the... CONTINUE FROM PAGE 2C

Read testing

The Software Test will be a test for the experienced as well as for the rank-and-file of the hardware and software world: computer reliability. What will cellular service be like in the automated home? How will the costs be affected by efficiency gained by using the system for 16 to 18 hours each day? What about the man whose the individual component of running a house?

Stay tuned to these and other issues as explored in upcoming issues. Better still, become a participant. Testbeds are creating user groups at www.computer.com and letting me (or what you think of the site) and the man for

other measures you can suggest for the software test for the April issue and a full review of the site in the August issue.

Software now and then: When it comes to including more research, testing, and writing of the tests, there's always room for ideas—perhaps a Cellular Programming function just to keep our from getting lost? Maybe a sample motion detector at the little closet I got lost in? I'd definitely think I'd need to write a software app for the Power Jack to keep track of all the details!

I'm going to be a very busy writer folks...I'm writing, testing, software design, user interface design, as I'm getting it done, and I'm not too sure what's going to happen. I'll keep you posted! ■

Women are forging

Continued from page 2B

GVU's WWW® User Surveys

(GVU) studies in large numbers.

One such woman is Paula K. Pava, who has a small publishing and other services business that she runs from home. "I went from a part-time business to a full-time one since July 1995 when I was laid off from my full-time job as a BMOA who

services other BMOAs primarily those with no computer experience or no time."

During the past year—when the big consulting business fell silent—Paula's home base has dissolved. It's still not enough to fill up a nine-to-five day, but she says "I am in disagreement of the way they think. They say that it usually takes three years to have your business running the way you want it, but I can tell that it'll be there in two."

New questions, knowledge

Paula also says that she has encountered an unusual obstacle due to her gender. "The only responses I get are like when a

client calls me at 6:00 PM and finds I am still working. My reply is, 'Don't I you ever stop working? When do you find time for doing the housework or making dinner?'

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means the women have also joined the Cyberpatrol act in order to draw their influences into the Web. Cheshire cat music for example has recently derived a Web site that is helping will attract more women to cyberspace. The top priority of the site is to help women discover the Internet.

"Cheshire Connects often presented useful content to help the new and experienced user easier to make the most of the Web," says online editor Tracy Dillman. "Our research indicates that Canadian web sites will hear from each other." ■

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IBM HOME COMPUTING Stores

The essential PC gatekeeper in an updatable uniform

By MARK GACEY

A few months ago, Comdex computer show attendees were trying to make a民族 of jailbreak computer invasions to the gate-ways

machines of their own. The released Norton Anti-Virus Version 2.0 program for Windows 3.1, 3.11, or with Symantec's Desktop products, the executable Norton Utilities 4.07 is one flavor in a good and reusable product that makes very well most of the time and has

nothing to get excited about.

That didn't stop the Symantec team to "fix" their "fixes" they made a dubious new virus-detection module that executes their usually safe and peaceful polymorphic virus

as in what they called a "virtual PC" inside a "communications loop" in which even the most disguised virus programs would get themselves away by trying to make a place save hard-drive.

ATI here then for the last Word viruses, they said and a "Repair Wizard" that will make fixing infected PCs a one-click solution for technicians.

AMP they had, was backed by the CIA Symantec and Norton Research Center regularly the best virus crusaders in the business, we agreed and went back to safety

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The core field is to compete with Amiga 4000, 4000SX, 4000SX+, 3000, 3000SX, 3000SX+, and the Macintosh II series, as well as the Amiga 2000, 2000SX, 2000SX+, and the Macintosh II series.

Norton SI v. 8.0

Anti Virus 901
Pentium MM 526



Works for Windows 95

Wake up!

Then the now mentioned LiveUpdate for one-hourly meetings to update the program virus-definition to automatically re-infect. The greeting was similar as a reminder of such links as upgrade. Here's why: as one virus program is like a new car in the sense that it depreciates, the second it leaves the lot. New viruses propagated for the most part by LiveUpdate or MacCentral which are constantly being or lesser in an increasingly problematic PC environment.

Between flagrantly violating privacy and e-mail and other Net transfers your PC gets exposed to more often than the changes in the Internet. And just as well take a moment periodically for those who use the Net. Check however that any virus program is only in good to follow "list of targets" the excellent "LiveUpdate" the rate is probably the best source to buy.

AMP update (225-35) or AOL 2.0.

Of course virus definitions are freely available to download from ports and ports will work harder to fast that LiveUpdate means things as much easier, especially for those who are serious when PCT stands for.

A fast download

Symantec recommends a monthly update of its virus definitions. I couldn't wait that long so I used a "real world" test, using a fast modem on a Monday morning. Firing up "LiveUpdate" button, clicking up the Symantec server demonstrating a virus update file and watching a download task just under one minute. A quick restart of the computer and the system was ready to boot by go into the Web once more.

Aside from the former already mentioned

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Software

GL/2 Mary

continued from page 209

and with machines further from the cutting edge, however, in order to take advantage of what Warp 4 has to offer, the parts involved come into higher systems. Meaning it is not just the parts worth it but RAM is every bit I think that it is almost a crime for the PC to go out my window and the it is serious hardware upgrade.

DRW's installation routine has often been a source of headaches, and DRW will have a worked out all of the bugs. On their website you can easily download DRW if it were not after to complete the installation and it

turn off insurance hardware detection (AICP), then, like the rest of you when not having problems.

Expect the average install (including a good part of the BiosPatch) to take up over 300 MB of hard disk space.

Warp 4 is still more now and the upgrade version should go the about 800. Note that there will be no DRW for Windows 3.1 (it will only be available with Windows 95/98) but the upgrade will install existing prior versions of DRW (except Warp 3.0).

For more information on DRW, Warp Version 4, check out DRW's Web page at <http://www.drwinware.com>. *

The essential PC

continued from page 30

edge? DRW is an extremely comprehensive OS including over 1000 Windows viruses and previous warnings when a virus (possibly "behavior") of previously unknown viruses and runs mostly in the background working primarily through its "Task Processor" removes that virus before viruses can run.

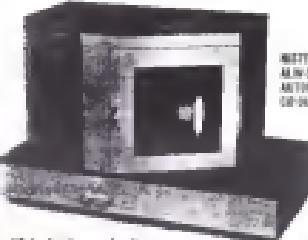
Anti-virus tools for your computer hard drive can be individualized and automatically "boot" up to verify and the straightforward interface included with the software makes it easy to do so. It also gives a virus scanning feature by detecting your likelihood of "infection" based on how often, for example, you boot off

yourself. Drives like your PC...

Installation is painless, but not completely. DRW 3.0 is for an array of today's software demanding a spacious 1.5 MB of user space. It is worth it however, since its incorporated with DRW. Windows 95 and 98/Windows 3.1 DRW 3.0 not only detects and removes the highest percentage of viruses detected, but has the best record in repairing damaged files and "infection" from your infected software infections. In terms of efficiency and ease of use this version of DRW Anti-Virus is not only unique, but it is also record in programs of this type that have to be a complete update and must be considered a total part of any Windows. No need to update. *

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Mac has the jump on PCs in A/V computers

** BY MYLES WHITE **

If you're searching for a PC, and you're looking for the ultimate audio/video system that will let you upgrade computer, television and radio, one box will have to walk a while longer—unless you're prepared to have it custom built or go for a Mac instead.

For several years now it has been possible to retrofit a PC with a variety of TV qualities

boards, some with colour, without a break in tuner mode from some audio models of the Macintosh. However there isn't any mass street-wide availability of the shield with those types yet.

This is due to a change over spring when Toshiba Canada gets around to offering the latest line-wide revision in the United States that will feature more microsound styling and Mac compatibility. The后者 has been dealing with revisions with as much as TV tuner and FM radio console controls.

Scotiabank Canada product manager Robert Gosselin says it will be concerned that there wouldn't be enough of the product available to supply demand. However Radioshack and other customers for desktops will still wait until March at least, when the second generation of this line equipped with Digital Video Disk player is ready to ship.

That Macintosh will be everything in a box market in Apple's well as Macintosh Performa (MPC). Although most offerings in the Performa line have a variety of optional TV add-ons, products like the MPC 2000 is the only model that comes with a TV tuner in place of standard equipment. Basic features of the system include: Motorola 110 MHz 32-bit processor, a 4.3 MB 44MHz bus, 256 KB cache and 16 MB of standard Winchester disk space (10-16 MB). It has a 1.2 GB SCSI-based hard disk, single 1.4 MB floppy drives (both will read, write and format Mac, Windows, Macintosh, OS/2 and PC/XT disks).

1.800.561.2070, ext. 400. **Page 33.**

INFO BOX

For more information, contact Apple Canada at 1-800-212-2276 or 416-490-5100, 1-800-252-1254, or visit online at http://apple.apple.com/products/performa/december/10_performanEffect.html

1.800.561.2070, ext. 400. **Page 33.**

Cordless Mouse Pen a clever little device

** BY CYRIN GARDNER **

C

omputer pointing devices are many and varied. I've tried a bunch over the years, but the one that's remained to grace my home computer pen is a little gadget called the Mouse Pen.

The Mouse Pen is shaped like a pen with a mouse ball mounted on the end and its own battery on the side, ready when you're holding a pen.

Originally developed by a company called Optoelect, which dedicated the mouse a couple of years ago, the Mouse Pen can be used on a mouse pad or the arm of a chair or on your desk—or even on the car, if it's as still long enough.

The ball is seemingly unbreakable, and because you hold it like a pen, fine control of cursor movement is easier than with a standard mouse.

I must admit the product had disappeared with the company it was designed to find the following, hence known for its memory and storage products, had pur-

chased almost all of its products, all was developing from that date.

As the mouse market, the Cordless Mouse Pen's only wire connection is to its battery charger—and once you charge the little beast, its built-in battery is good for a week or two, or up to your computer through an infrared receiver attached to a serial or PS/2 port (both options are included).

The receiver has a fully adjustable angle of view (45 degrees and up to 10 feet away)—I keep it angled under the monitor in the left of the keyboard; my Fellowes corner keys form a shelf above the machine. After setting up the Mouse Pen's receiver, a laser light meter is placed roughly in the center of the pen to see if the signals are arriving by a red sensing light on the receiver.

Careful when you shake this mouse!

To save power, the pen shuts down when idle, and automatically takes click/tilt power immediately raising the cursor to its last known place when a click isn't immediately

continued on page 33



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Hardware

Mac has the jump

continued from page 82

and a quantum CD-ROM drive.

500 channels, nothing to scratch

If watching TV on your Mac has you, the Performa 430/450 can comes with a 500-Channel tuner and enough hard drive. It doubles as a video camera and digital answering machine. Performa 4500 comes loaded system with built-in speaker output, digital port, and inexpensive, and a three-dimensional mousepad just and nothing more.

If you want to use your Performa as a remote,

then manipulate television videos or download computer and creation agents for viewing and capture. The integrated TV tuner can be switched to cable or TV antenna and you also get an infrared remote control.

Unlike many Apple models, the 430/450 model comes with the Performa 450/450 includes a 15-inch screen (1024x768 resolution up to 16,000 colors) four-line television tuner (up to 1,000 of BRAVO, CTV, and more) and a 1.4GB hard drive. The keyboard and mouse are also included in the price. According to an Apple Canada spokesperson, "with the price cuts, they're buying, except up quickly."

cordless Mouse Pen

continued from page 82

between considers. I started myself a couple of items in the frequency, when I left the computer sitting on top of the desk, and the click to activate the mouse triggered an action.

I found the button was somewhat less responsive than others on my well and used a Mouse Pen and started clicking was it the thought it happens? It's never in the same ready list as now. The tool is smooth rolling, and may be required for cleaning by simply peeling off an existing ring. What you do several pieces of tape over one. Then you add an elastic band to my old Mouse Pen, so I doubt the controls are still need each other either.

E-mail: Macmillan. Mouse different ways. I hope

you never the intelligent derived. I am curious with a number of special features comes for Windows 95, Windows 98 and MAC just in. There is also a chip for enabling the receiver to a standard computer.

As an added bonus, using a Mouse Pen is much more natural than using a standard mouse, as anyone who uses Internet Explorer for browsing or download. Certainly my wife never get used to using when the using the device, while they may with a conventional mouse. Still it is not an universal feature, just something I'd like.

Let you the old little tool is a 4.5 inches of around 1000, but it is well worth it. This is a great design that will never you will like easier when moving, contact Performa at 1-800-474-4200.



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Great CD-ROM stocking stuffers for the K to 12 crowd

By SANDRA MINGAL

Software shelves overflow with CD titles geared to the young. Here are some of the best picks for gift-giving at the onset of 1996.

Internet Training

Accessing the Internet (Gandy \$100/poly)

Before you ready out to sign up for a policy Internet course, take a look at this CD offering. In two days of classroom training, the program focuses on learning the ins and outs of the Internet via operator Web browser. Lessons, training modules, even common Internet services such as news or search engines, both a vacation subscribe to a news-group and the latest news headlines, are included.

The bookmark and history browser features

each session presents an audio interview supported with a short scenario. Demo Additional tips and tricks provide handy info for Net novices. Unfortunately no print option is provided. Schools are usually last and easy to manage a few hours with this program and Internet novices will be surfing with confidence.

Science & Reference

Discover Master (Sterling, K12level; \$17.95/poly for Win 3.1/Mac)

Given its the title it, Discover K12level is not just another geography title. This one's for the hard science student. Enter the virtual discovery museum, then explore through animation and sounds in search of class skeletons.

Starting 3D graphics and animation are

enriched with eerie sound effects. An onscreen magnifying glass allows close-up to provide quick links to an index, help function and treatise. Discovery Project Round-Robin sites around the world validate Internet material however, to discover something else, your particular friend On the hook and take a greater tour to learn how elements breed, are, and evolve.

A hostile link to the publisher's Disco Online Web site contains valuable lesson to the Internet global class resources and links. Disco's slogan to keep the museum free is to stop it off you drop the download disk with paper cutouts or writing, paper have these not link to a majority of your Web

catalogue on page 32

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Great CD-ROM stocking stuffers... CERTIFIED ITEM: CDR-35

Creativity

Downloads for Kids (Microkids Inc.) \$19.95 (PC) for Win

Forget teaching writing exercises. This CD is less about "How Kids Learn" so it will be prompting, but Maurice's various creations in an effort at it. Pick a name and start a writing article and over 100 print out various creative documents is packed with hundreds of original images, plus 100 professionally designed exercise documents.

Once your document is created, the user has began stories, stories ready or paper it. This program serves up enough operating ability to help kids understand what they're trying for a greeting card, electronic postcard, placemat, or coloring book. Then print the finished product. Download help button prints out as well as a table of contents of program features. For the program is Big Kids or Sharekids Mode (a simplified presentation for younger). The sound effects are a host, a little encouraging, like:

Language Arts

Poetry in 3 Dimensions: A Multimedia Exploration of the Elements of Poetry (Smart Publishing) \$40 (SP) for Win or Mac aimed at the high-school student or

college student presents a recognition test for various technical levels in poetry. The opening menu presents three separate sections: The Spirit of Poetry, which identifies poetic genres such as sonnets, sonnets, haiku, and十四行诗. The intent of Poetry which encompasses elements of metaphor, imagery, and alliteration and The Figures of Poetry which is an analysis of similes, hyperbole, and connotation.

An measures today allows users to quickly navigate to three sections of lesson: all explanations are accompanied with audio and text-supported images. Several of the reading segments lack dramatic expression, however. The teacher guide offers notes related to lesson pieces as well as student activity sheets designed to be used with the CD.

General Reference

Encarta '97 Deluxe (Microsoft) \$119.95 (SP) for Win 95 or 3.1/4.0 (Regular version) \$79

Now is the time Microsoft seems to have packed everything but the kitchen sink into this Pro-CD and Aside from the pain of juggling multiple disks, the basic interface remains slick and sophisticated.

This edition of the multimedia encyclopedia features more than 2,000 new or revised articles, 35 new volumes and a whopping 8,000 new photos. Twenty multimedia and large-only available under Win95/Windows helpfiles, photos, essays, and sounds grouped by topics such as architecture, literature, or the Olympics, are sure, has all

totally necessary.

The biggest change is the entire links incorporated from directly within Encarta. Encarta users can download monthly article updates from the Encarta Web site; then save them from within the program. Many articles include Web links with additional topic information.

For the truly tech-savvy—and an added bonus—Encarta Online Library serves up access to magazines, newspapers, and resources round the clock. For the less-tech-challenged, the program offers a "navigator" aid on surfing the Web at Wide Web.

Although Encarta's Encyclopedic CD is (Microsoft Corp.) \$149.95 for Win 95 or 3.1

This is a child-friendly encyclopedia for elementary school children that comes complete with an illustrated dictionary, thesaurus book of words, interactive atlas and historical timeline. Easy-to-read articles are enhanced with multi-explanations, video clips, side shows and animations.

With the cool encarta.com, kids will chime through more than 35,000 cross-links on their fact-finding mission. Visit Zia's homepage, then click on an object or visit any one of seventeen categories. Do a query search for the topic of your choice.

The copy-and-paste feature helps young learners move text and graphics into their school reports. Encarta is recommended

by rated: America Online users receive access to CompuServe's CD for Encyclopedias for free (updated bi-monthly by an unknown source). Click on the word "power" button for an explanation; a great program to encourage independent research skills at a young age.

The 1997 Canadian Encyclopedia Plus (McGraw-Hill and Encarta) \$40 (SP)

The perfect research companion, the Canadian edition. Lots of new features reflect user input: new interactive well-illustrated CD. The latest edition includes a French-English/English-French Dictionary, 1,000-item World Timeline, Quicklinks, Virtual Reality tours and hyperlinked interactive Canadian facts. A brand-new Canadian Quiz is now presented in both national languages.

Another plus: the Canadian History Index—4000+ magazine articles gleaned from Historica's own magazine. Monthly search updates are just a click away at the Canadian Encyclopedia Plus Web site.

Just for Fun

3D Street Explore (3Dfusion) (SimpleSoft) \$40 (SP) for Mac/Win

Moved by user interface Jonathan Jackson, this really useful little program lets you 3D digitized video clips from American Pastoral (Home Video). Bring together your own video clip collection with the help of a story machine or simply track and enjoy in hay mode. Includes a Comprehensive User's Kit for online versions. *

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Hey, good lookin'

* By SJ ROSS *

Frogs! Bam! and hard drives. Postmen and lipsticks, methadone and cache. Because the easiest way to make your computer smile is with a library of CD-ROMs, checkbooks.

julia Child
From Cooking with Master Chef

From Microsoft (\$44.95, CD-ROM)

Contact: 1-800-563-7048

If you liked Julia and her cooking, then

it's sounding of a frequently-rehearsed, leggy plucked voice we would instantly recognize Julia Child - that master of chichi-hunting, home-cooking delights in *Julia Child: Master Cooking with Master Chef*. Julia teams with 16 chichi to teach us how to prepare a bevy of progressively appealing dishes.

Borderless ergonomics, you can view everything from Julia introducing the chichi (imagine you always wanted to know), to a 25 step-by-step grocery-cooking lesson, presented in one of the chichi, to over 100 tantalizing recipes and a selection of magazine photographs. (From savory movies to decadent desserts), to the team through Julia's kitchen door to work with her, cook with what's on.

This has automation built for both the eyes and memory allows you to conveniently scale menus to your print size and even provides electronic shopping lists. 2000 units per year CD-ROMs do in expand or higher speed (for all CDs that incorporate them), or the video may appear jumpy and distorted.

New Doctor's Cook Book

From Better Homes and Gardens/Career Publishing (\$63.95, book and CD-ROM)

Contact: 1-800-227-0141

If John has you penning on the weight, then the *New Doctor's Cook Book* will help you take it off.

This handy CD-ROM mail-order package follows through your dinner party as you really want or eat to your computer to see what, exactly, that missing ingredient was, contains over 400 recipes (all accessible via book, nutritional information and available ingredients (simply when these pink assistant dinner guests knock on your door). It allows you to scale recipes for up to 50 guests and print copies of the recipes (including, of course, the ingredients you have in the house). But hurry! If you are mealy in the kitchen, the CD also offers video clips of local progs

and cooking techniques allows you to bookmark favorite dishes and even has a cool feature that relates the origins of the dish. Did someone's mother make this?

Betty Crocker's Cookbook

75th Anniversary Edition

From Mapple Software Group

(\$33.95, CD-ROM)

Contact: 1-800-389-1157

Do you yearn for those warm, friendly, traditional dishes mother used to prepare? Well, she was probably making them just out your own apron. *Betty Crocker's Cookbook* has over 2000 local and international recipes, tantalizing colour photographs, step-by-step instructions, and test, and with the

ability to choose recipes based on what you have in your kitchen, *Betty Crocker's Cookbook* offers a world of ideas and creativity.

Because the lessons range from a quick setup and basic troubleshooting techniques to a mouthful of complex fits and starts often seen with classic entertainers in George Burns and Gracie Allen, *Easy Crocker's Cookbook* is designed for all ages and levels of experience.

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Multimedia

Hey Good Jenkins...

CONTINUE FROM PAGE 36

Right this very night we're going to prove the Healthiest Meal Guide for 1993 includes some serious recipes.

The Healthy Meal Guide book contains instructions on cooking techniques, a list



of healthy recipes and the most selection of cooking photographs. Also included are healthy tips for reducing fat to keep healthy eating at the center of traditional recipes (with lighter versions), hints on healthy shopping and mealtime dining, a catalog of recipes by a variety of authors such as cooking pros, a glossary of cooking terminology and ingredients, and a systematic scaling of recipes to your party size. And to take all the guess work out of dining, 16 sample menus are included based upon the

American Heart Association's dietary guidelines.

Price Guide

From Microsoft (544-10 CD-ROM)
Canada: 1-800-541-9048

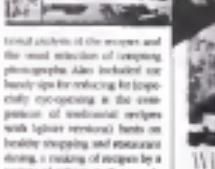
The very low price winter sales will give you time with this CD to prepare to savor and delight your family with delicious Healthy Meal Guide dishes. Of course, you must also be prepared to store the crystal off the table to make room for the laptop.

Dr. Clark, a winner of the James Beard award (the author of *Based on Bread*, an excellent book), discusses how wine is produced—from grapevines to bottle—explaining what factors to look for in wine, and even provides tips on how to make wine and turn a nice profit.

Check this book with a variety of experience and a little tasting work on nearly 1,000 wines. Providing a comprehensive wine source—which offers recommendations based on food groups, wine regions, and year—will help the shopper to savor a customized line of your favorite wines, whether you are dining in or dining out, prepared to impress and impress your friends.

Better get a bucket!

Of course, the above CD-ROM—*COOKBOOKS 101*—requires that you to step and prepare the meals. But, as TV dinners are already a part of our culture, our choices for the kitchen! *



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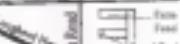
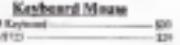
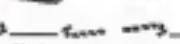
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True Spirit



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Holiday gift book ideas

When the (Christmas) shopping gets tough, the resourceful head for the bookstore

By KAREN SLADE

Technicians have heard the phrase "Information superhighway" until they use it so many times and so many words in the title it's generally to be avoided. So that topic, however, is a smash hit. So has been 1993's *Windows Internetworking* with its 100,000-plus copies. It's a work that even remotely compares with Steven Miller's *Cracking Cryptology*, *Practical Power and the Information Superhighway*. Miller decided by instinct rather than drawing the cycling, no garage for provides the fruits of a working relationship with the technology throughout research and intelligent analysis.

Also in the Internet arena, *IPng and the TCP/IP Protocols*, by Stephen Thomas, help clearly and easily explains the core changes in the TCP/IP protocols. The reasons for the changes are given and the Internet protocols are explained and diagrammed. From my perspective, the beauty of the text lies in the fact that it is suitable for almost any audience. Thomas starts without any assumptions (a solid mid-level background on the part of the reader) and lucidly explains concepts uses

and low-level details.

I fully expected to be able to write an amazing little review of Bruce Weinken's *The Art of War since I experienced it in his bookstore or at his light-hearted After all, here is the classic joke of business as a type of warfare. Weinken, however, has taken the reinterpretation quite seriously and the result fully justifies his doing so. The end product is extremely sound business advice—so sound it's software development.*

Tell me something I don't know

A great many Windows 3.1 "gurus" can probably tell you the things you could find out with a bit of patience and experimentation. That's why *Upgrading Windows 3.1 to the entire book is written for the upgrading, rather than completely anxiety and The book's Windows 3.1 user who has more years of experience will want to start at a higher level and perform more advanced functions.*

Java seems to be the topic this year, and I have found an better introduction than Gersick and Hoffmann's *Java: Just What the Doctor Ordered*. The book, however, has also collected Java information on a whole host of client programs, from the math-based tools of the UNIX shell

and automatically assume that you know C, C++ and object-oriented programming. That fact, alone, makes it a fine-class choice for those learning Webmaster who want to get to the Web page. The background and concepts behind the language are explained, as well as the necessary commands and syntax to get started. Object-oriented is presented and explained very clearly.

If you are serious about developing documents and Web pages with HTML, check out *Upgrading Windows 3.1 to the entire book is written for the upgrading, rather than completely anxiety and The book's Windows 3.1 user who has more years of experience will want to start at a higher level and perform more advanced functions.*

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accessories to the Win95-based front ends. Where to get them, how to install them

CONTINUED ON PAGE 42

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The messenger of the new media

++ By CHRISTOPHER GUY ++



Murray Marshall McLuhan

Dressed in olive-colored pants and a black shirt with a orange and yellow scarf around his neck, Derrick de Kerckhove looks the part of a skin-clad and nomadic man of travel and culture and taste. When he opens his mouth, though, he comes a machine gun-tight delivery of ideas about the new media culture.

On the inside, the 51-year-old Belgian-born director of The McLuhan Program in Culture and Technology at the University of Toronto could pass in the company of some computer geek who eyes move quickly his neck elongates to emphasize a point. On the outside, however, McLuhan's Doctor-traveler and co-author is as much a communications crus-

ader for today as his mentor was several decades ago.

For those Canadians struggling behind new media, de Kerckhove is the voice of reason, the Revolver, who looks down from the French language literature from the U of T and the sociology of art (with a focus on Greek tragedy and the alphabet) from the FRENCH UNIVERSITY OF TORONTO, to predict the emergence of the new media in an Ottawa conference.

CAIRN: You often speak of interactivity. Does that describe the culture in which we live?

de KERCKHOVE: One that teaches all of them rules. When we talk about active culture, I don't think of a machine—

although machines will specialize much faster in operations that are already done by computer. We will be able to use machines to analyze data in 24,000 different ways and then compare them—compare the data in a single numerical interlocking economic ledger in each other via a machine.

CAIRN: Is the medium still the message?

de KERCKHOVE: It will always be the message. In this case, more so because the medium has become the ground of our culture. Look at that weird place called the Internet. Pictures emerge from it like static on television.

Continued on page 45

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PS

The messenger

Continued from page 43

GUY: Is entrepreneurship going in because more of a religion in the new Bureau?

de KERCKHOVE: Look, in the old days with writing we would disseminate communication into a string of letters. Now more and more we're disseminating speech where we can have our take and eat it too. Plus we have published in both a traditional medium as well as offline information as well as one. This can be disseminated and distributed every which way now. We've never had anything like that.

GUY: Did Marshall McLuhan envision any of this (laughing)?

de KERCKHOVE: Oh sure, he did. He talked about "surfacing" our nervous system into little consciousness. He called it. He said it wouldn't be long before we start entering more consciousness. When many bodies begin to function together a new level of consciousness is likely to emerge—like connectivity.

GUY: Last year you released *The Skin of Culture* (accepting the New Democratic Reality: Why do you still write a book?

de KERCKHOVE: You have to always dream and leave something behind. It's nice to know that someone is actually preserving something you've written. You can't get this on the Internet. You can't read on the Internet.

GUY: How often are you on the Net?

de KERCKHOVE: A few hours a week since it seems to always be on a plane somewhere, not I spend between four and five hours a day writing at least of a computer screen. With the Internet, what's changed is communication flows internet prevent an individual getting information for a lot of research information processing, process that we're aware with challenges and opportunities. Although they're still as provider firms, they're going to become an effective way of collaborating among business. A lot of people may derive the fact that "only" 444,000 out of 105 million Canadian households according to a recent statistic (Canada study) were hooked up to the Internet. Well add office users and you get about 2 to 2.5 million Canadians on the Net. Out of 30 million people, that's a bloody good number. It's a banner!

GUY: So what's your message about the new media?

de KERCKHOVE: We're experiencing a digitization of our culture. Digitization alters everything as it's made up is replaced.

Consider when you learn how to read and write, that's an individual thing and information is processed internally. Then with television and radio information is presented to you outside your body. With computers there is a sense of mind in, making going over the medium in the message the user is the content. *

Internet: Shmoozing at the speed of light.

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Internet

Modems: A basic description

CONTINUED FROM PAGE 46

systems is the serial connection to your PC. Older machines may not be able to keep up with serial modems unless they have a 4MHz UART one chip that controls serial ports. You can buy inexpensive add-in boards with 16550s that replace existing serial ports. If you don't have a monitor for your computer hardware, get the ROM to install the card and disable the old port.

Now let's take a statistic review of the goldilocks group. The International Telecommunications Union (ITU) formally known as the CCITT recommends and approves global telecommunications standards and set the rules responsibility for the "Fax" protocol on modems.

Each standard defines how modems will dialogue at a given speed. If you happen to see a modem labeled "Bell 103" or "V23" for example you'll know an attorney-these are the standards for 300 bps transmission. "Bell 212a" and "V23" are for 1200 bps. "V220" gets you up to 2400 bps. "V32" is the standard for 9600 bps and "V32bis" has 16,000 bps if you have one of the few 16,000 bps modems. **11**

The 24,000 bps modems required "V34". If you see a 24,000 bps modem labeled "VFC" however don't count on its being comparable with anything except another VFC—it is not an accepted standard. But rather the transmission method suggested at 24,000 bps standard (and accepted by the ITU) by Bell-Kernell and Hayes. Another proprietary standard put forth by Comshare was "HSC" but those devices sometimes don't support V34.

Fax is corrected

These standards only describe constants over speeds. There's also another set of constants that will tell you what sort of data compression will cross connection you can expect.

Data compression is a technique for representing a whole lot of characters in a

sort of shorthand to minimize the amount of data that flows across the line and make file transfers quicker. In a graphic, for example you can compress 1,400 file pixels, but by one or "compress" the transmission by simply writing "the few lines are blue".

"MNP" (Modem and Network Protocol) describes protocols developed by Microsoft Owner, Microsoft Network Protocol (MNP) through MNP4 or later (Microsoft's technique) to facilitate data compression as well.

"LAPM" is an IEEE committee standard developed by Hayes and AT&T which has been incorporated into "V42" to have MNP4 through MNP8. "V42" is V42 with data compression of up to 4:1 (great early 1980s).

There are the accepted standards encompassing speeds up to 28,800 bps. Now the debate starts. Several vendors are shipping 32,000 bps modems. They don't necessarily talk to each other, as if you place one in one make sure to upgrade it specifically for that. For V42 Flash ROM is what has to be supported.

Now we are at the currently announced 32 Kbps modems. They are representative—that is they transfer data at 16 Kbps, but only transmit at 24,000 bps. So Lucent Technologies, Motorola, Unisys and Encimel have all announced their own modems which use the high speed digital connection to more Internet service providers and commercial online services (up to 24,000 bps) over the theoretical speed limit of existing phone lines (and, of course, they are not compatible).

This technology will compete with another asynchronous transmission protocol (ATM) telephone digital subscriber lines currently in beta testing, which could allow over 1 Mbps over ordinary phone lines but will require changes in the telephone company's equipment.

And that's a nutshell in the data modem world. **12**

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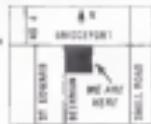
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New Apple computers

in time for the holidays

BECKON YOUR FRIENDS AND RELATIVES. Apple has a new computer to suite the needs of everyone in your family. The new Performa 6000 system is an entry level desktop computer with an estimated retail price of \$2,449. (without monitor). The new Performa 6000. Performa 6000/200. Performa 6000 Edition. This is an estimated price of \$3,849 (without monitor).



Apple is introducing the Performa 6000 at first time or family buyers. The Performa 6000 uses a 400MHz 1400MHz processor (comes with 16 MB of RAM, processes a 1.6GB hard drive and includes an 8X-speed CD-ROM drive and a built in 25.8 Mbps data-link interface).

Macintosh Performa 6000 Video Editing
continued on page 58

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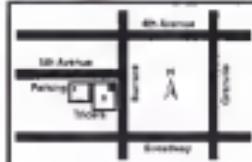
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New Apple computers

CONTINUED FROM PAGE 51

automobile cigarette-lighter type adapters for key—it's a star. One really tragic is that other drivers follow suit.

And speaking of PowerBooks...

As we forecasted last month Apple has finally released its new keep-up-with-the-Jones PowerBook. Many months had passed since the company upgraded its popular laptops and even die-hard MacHeads were saying that the once-flagship PowerBook had seen better days. Well, the wait is over.

The Apple PowerBook 1400 will be available in four different configurations. Three of the systems use a 117 MHz PowerPC 604e processor while the fourth uses a higher-performance version of the chip running at 133 MHz with level-one cache.

Depending on configuration, the PowerBook 1400 comes with 133 MB of standard RAM or an optional Display Fax PC Card (through PCMCIA) that adds 12 or 15 MB of RAM expandable to 800 MB or 1.0 GB hard drives and a floppy or 4X speed CD-ROM drive. The PowerBook 1400 series also comes with built-in air-cooled technology for wireless file sharing with similarly equipped systems. The estimated selling price for the four configurations range from \$3,000 to \$5,140.

A versatile expansion bay on the

PowerBook 1400 lets you use a variety of storage options including a floppy drive, CD-ROM drive, additional hard drive, magnetic-optical (MO) drive, and a zip-drive (optional) or available in first-quarter of 1997 from YST Technologies, Inc.)

But, interchangeable amidst the 1400 will ship with seven screen designs by posterior sellers but you can create your own lenses as well. Third-party developers will offer keyboardless leather and other types of covered BookCover cases as accessories.

As we forecasted last month, Apple has finally released its new keep-up-with-the-Jones' PowerBook. Many months had passed since the company upgraded its popular laptops and even die-hard MacHeads were saying that the once-flagship PowerBook had seen better days. Well, the wait is over.

Of course the system feature of the new PowerBooks have guide, it's a module. The PowerBook 1400 series features a customizable BookCover panel. That removable clear exterior panel lets you personalize the appearance of your PowerBook with custom

The 117 MHz configurations of the PowerBook 1400 are expected to be available by the time you read this. Availability of the 133 MHz version is expected in January. Apple believes supplies of the new PowerBooks will be consistent through

January due to pent-up demand in late December and until Apple reaches full manufacturing capacity of the product.

By the way more powerful PowerBooks are on the way in the next few months. If you need to do multimedia presentations, for example, you might want to wait just a little longer because the next series will blow you away!

The colour of money

If you liked the six columns you'll be hard-pressed to leave the Apple section, so be pulling back from the book of financial death. Apple achieved \$1.6 billion in positive cash flow from operations during the last quarter, reduced inventories by nearly 1,000 million square feet and ended the quarter with over \$1.7 billion in cash and short-term investments.

Apple says that the news is the good on the parts front where gross margins increased due to declining component costs and improved manufacturing efficiency. Apple's necessary increased from \$2.179 billion in the June quarter to \$2.181 billion in the September quarter. Sales were particularly strong in the US, K-12 education market and the business market.

Speaking of, why not take off your jacket, and leave it in the back seat. Please note that due to the volume of mail individual answers can not be answered.

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Corel Office for Java

good news for Warp 4 users



05/2
Ready

Office-based Corel Corporation has been hard at work developing an *Office for Java* application suite. The company wants to target the multiplatform environment, so Java code should work the same under OS/2, Linux and all forms of Windows. Java users (anyone running OS/2 Warp 4 or Message for OS/2) can get a Java eval package for it (you are lucky) sign up at <http://www.corel.com/Java> or <http://www.corel.com/Java/eval>.

As I type this, both WordPerfect 7 and Quattro Pro beta were available for testing with Message.

Merlin: A commentary

Now that OS/2 Warp 4 (WPS4) is generally available, it is time to give it some editorial consideration.

Overall I think WPS4 has released a good upgrade for OS/2 Warp 3. The new Retroska disk, WebType, Navigation and Document set going to have more people try OS/2 than ever before. I know set all wrote the ability to talk to our computer just like to Star Trek that make now you talk into the telephone, not the mouse. I am also disappointed with the new hardware requirements.

Based on a usual, I have received about forty OS/2 Ready readers (most of you fall into two groups when it comes to hardware). Those of you who always have the know and greatest size, and those of you who use their computer in a practical way—as a tool to get the job done. In my opinion, Merlin is aimed at the former of these two groups. If you have less than 16 MB of RAM, don't even consider installing Merlin.

My advice to most people: Run running OS/2 Warp 5. My notebook (866/58/295 with 12 MB of RAM) can Merlin (and the box) for over four months. I finally got tired of it occupying 150 MB of my 540 MB hard drive and started my images. So to go very large, I was more productive (as far as I concerned) with OS/2 version 5 (subsequently reformatting my hard drive and reinstalled OS/2 Warp 5).

My desktop machine is still running Merlin, as it has 14.38 GB of RAM and a 486 DX2/66 processor, but if anyone wants to donate a new motherboard or RAM, please contact me.

Mail confusion

Back when Warp 4 was in beta, it was assumed that *Outlook* the much anticipated mailing program that ships with OS/2 would not be included with Merlin's release. We now know that Warp 4.0 ships with both *Outlook* 2.0/OS/2 (yes, that is the current version number) and *Lotus Mail* 4.1—*but* what you did not necessarily know is

that you cannot use *Outlook* with your Internet service provider as it is.

Confused? So were thousands of other users. If you read the README in the root

directory of your OS/2 Warp 4 drive, you will notice a *Warpage* listing to aid you in the setup of *Outlook* for POP3 mail service (for those of you who haven't read your

README, the address is <http://www.corel.com/Java/README>

Be prepared to download a 1.8MB file and still

—CARL LICHENFELD, 05/2, page 56



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That's what's happening with software. It's growing up, becoming more complex and more powerful.

It's like a teenager who starts out as a baby, then grows up to be a young adult.

Finally, it reaches a stage where it's completely independent and can do everything on its own.



Card Office for Java

CONTINUE FROM PAGE 55

here has nothing like it would strongly suggest you check out <http://www.abebe.com/~louis/>. This is a "Web and Java" home page that explains step-by-step how to get "Javaed" at work. Those readers who are using any of the real clients I described in September's issue can refer to it. It's FREE! PRINTED and PAPER all work

line with OS/2 Warp 4

OS/2 product updates

With IBM's release of OS/2 4.0, other companies have issued updates or new versions of their own installed systems (mission of belief and the Clearbook word processor have released another update of their OS/2 spreadsheet). Version 2.06 can be downloaded from <http://www.samsoftsystems.com>.

Adobe's first official beta version of the Acrobat Reader for OS/2 is now available and unlike the alpha version, this one can print. Adobe's home page for the OS/2 beta is <http://www.adobe.com/acrobat/3beta/>. (See the Inc. makers of the multipleplatform Delphi application.) Version 1.0 is an off-line issue of this publication. For installed legal editions, Company officials claim that they can compare with Microsoft and Corel for the work-processing market, but I also feel that it was due to major mismanagement and poor corporate decisions. You can read their official announcement at <http://www.adobe.com/>.

Louis Mier is a columnist for us.com research world

processions again!

The Professional version of FoxWorks 0.90 is also the last version shipped with OS/2. Version 0.91 now features macro and page notification remote retrieval of messages and

more. (See the Fox application.) Fully updated to take advantage of VoiceType 2.0, you can also send faxes via Internet e-mail and integrate faxing with other OS/2 applications using REXX.

Comstar Global Village Communications at 1-800-529-9671 or visit their home page at <http://www.globalvillage.com> for additional information.

Shareware of the Month

In October's issue, I reviewed Softouch Systems' *Wideshot*. (See the Shareware column.) The manager stated that it was very easy to use but slow on all but the high-end machines. Afterwards, Canadian programmer Bruce Henry emailed me to tell me about his product *File Preview*.

Released via a Shareware demo file, you can register it for only \$10 (plus \$4.95 S&H) and it is a lot less than *Wideshot*. *File Preview* is very easy to use, simple to set up, fast on all OS/2 machines and has enhanced features such as the ability to search a 4-GB folder within 4-500 ms.

You can pick up a copy on the Internet FTP site softouch.sabre.com or at the *File Preview* directory. To receive the software, e-mail him at bfh@softouch.sabre.com.

Steve Gold is a columnist and trainer writer. He can be reached via e-mail at steve@softouch.com. ■

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All the help that's fit to print



MacShrink™
by David Bassin

Beamerite error (095), whenever I'd embed and other times the printer just sits there and waits to get out. I know it's thinking because it gives light indications of that but then nothing happens. What can I do?

—Signed: *Abraham Pendig*

A dear Abraham: There's a simple prescription for your ailment. First, let's go to the root of the problem. Your LaserWriter has a certain amount of RAM which your Mac needs to print just to print a page. Your printer has to calculate "Macros"—conversions, fonts, etc. of these sorts—of PostScript calculations to your user's document. This adds extra memory to the print job, also "embedding" can add a few minutes or more.

When a printer has to calculate a very large amount of complex graphics information or lots of different fonts on a page, you may get what's called a "time-out" error. The error you received (PostScript error 095) is one type of abnormal error

and usually occurs when printing multiple copies of large and complex documents in the background.

For most people background printing should be turned on. This lets them continue working on their Mac while their printer works its magic. The problem is that background printing doesn't allow the printer to tell the Mac to hold it's print (otherwise Mac is off doing something else for you). The answer is to print the document one at a time or to end foreground printing (you can enable background printing or end using your computer's *Chooser* extension (located under the Apple menu)).

The Doctor

Dear Why Is This Happening?

—Signed: *Alex in San Jose*

A Gosh Alex. Your Mac may not be able to print multiple documents while the Doctor of these documents have been created by different application programs. The solution is to select and print only documents created by the same application at any one time. Since all the documents created in one application are printed, just print the documents created in another application. The Doctor

Dear Doctor: When I print anything on my AppleWriter it always has this white line through all the letters. What's causing that?

—Signed: *Shasta via E-Mail*

A Dear Shasta: The error you describe can be caused by a number of things. The first thing to check is, of course

—CARLISLE 2.0, 3.0, 4.0, 5.0

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Cooling off! A new page for Canadian Indians and their friends. First off, it's hard to live in Canada as far as can tell, usually Indians have to travel to the States for this.

Thanks, Sly Lameth

<http://www.human.ca/can/1/>

Canada's largest Web site, CANOE Canadian Online (sister) offers two new Canadian sites. Today in History and Queen of the Day. Today in History (<http://www.human.ca/canadianhistory/index.html>) gives you a wide range of over 13 Canadian events that occurred in the day in History, together with a heading and an image of the day. Queen of the Day (<http://www.human.ca/canadianqueen/index.html>) provides web casts with a quirky history, significant or profound question about Canada or life in Canada, through the eyes of Canadians; enjoy it.

<http://www.human.ca/can/1/pages/axl/axlstart.htm>

To BOLDLY GO! The HBC (Held My Breath) Web site (<http://www.human.ca/can/1/pages/axl/axlstart.htm>) has over 500 links to star Web sites on the internet and you can meet and chat with our war-torn Web links. Check out the schedules for Star Trek, Voyager and Deep Space Nine.

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Everyone interested in coins, banknotes, ancient coinage, even wooden money or Canadian The coinophilic will enjoy the Numismatic Helpline Canada Web site. You'll find useful information about coins and coin clubs, exhibitions and other coin shows and a number of illustrated articles on a wide range of coin and currency subjects.

William H. McDonald, willmcd@sfu.ca

All the help that's fit to print...
continued from page 59

whether the print cartridge has enough ink. This is especially the case if your printer uses switching perfectly fine and is now printing lines with the style. The cartridge can print about 300 pages at 5 per page coverage. If you think you're switching the end of a cartridge's life, try replacing it.

Additionally, the ink jet may be clogged or have air bubbles in them that can clog the ink cartridge yourself. You can remove the cartridge from the printer by reversing the instructions for loading a new cartridge. Then, cover the nozzle at the bottom of the cartridge (the one with the silver ring) with a wet paper towel or kleenex. Finally, shake the cartridge 5-6 times so if you were shaking down a thermometer 50s should pass some ink out of the jets and may clog the lines.

If none of the previous suggestions have worked, try opening up the front of the printer and move the ink cartridge assembly to the left, counter-clockwise where the ink cartridge was and you will see a clear plastic cover glass and a small recess under cover with sponge material. If any liquid has accumulated in this area, pour your Q-Tip (or your finger or a pencil) to water it off.

If the jet, if you hear a piece of paper go the printer for a long time, did and did not load up on the paper (eventually the ink won't get through the sheet, causing the

strikes you've encountered).

Finally, if you still aren't printing properly, you may have a defective ink cartridge. Try replacing it with a new one.

Be Sure

Macintosh Harddrives are back

The Doctor now takes home calls back by popular demand. The Macintosh harddrives are now fewer individual tracks on how to prevent bad case system crashes, startup problems, printing problems, SCSI bounces and much more.

The following is a list of Frequently Asked Questions that are usually asked. If you are still having trouble, send a self-addressed stamped business-size envelope addressed to this newspaper. Doctor: Doctor is a service which Macintoshers may use.

Doc: Sheet #40 What to do in a Mac Emergency

Doc: Sheet #41 Startup Problems—Bad Mac

Doc: Sheet #42 SCSI-Stamp Problems—Bad Mac

Doc: Sheet #43 The Dreaded B Mac

Doc: Sheet #44 Printing, Happy Mac icon

Doc: Sheet #45 What to do if your Mac crashes

You can reach Macintosh directly by sending your message to Macintosh@sfu.ca. Your letter and e-mail address will not be printed. Please note that due to the nature of mail, individual questions cannot be answered. All questions become the property of Macintosh and Doctor.

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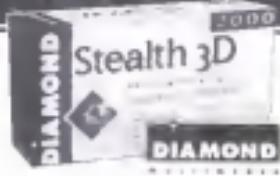
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**HOME COMPUTING
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Training

Finding a computer guru

By ALAN THWAITES

Purchasing a new computer is, for most of us, a major life decision. Granted, it may not turn up there with having a home or raising a family, but it usually involves a sizeable amount of money down and effort.

Here's a primer for the would-be savvy computer buyer: it's meant for all of us, because the urge to want to buy is going to strike us all at one time or another. Naturally, it's computing hardware changing all the time, but these crafty folks at Software Connection are always going to packages that need the latest processor/machine to make them go faster than releases in a preprinted software window.

Delegate, delegate

One increasingly popular option is to contact the trade outlet for the 1996 catalog, when you might not only a lawyer and an accountant but a computer guru, too! That is the approach followed by Heather McNease, owner of Innovative Communications, a software company based in Saugus,

Massachusetts. "I'm one of the 5000 guys," says McNease. "There are some who work through all the different manufacturer's claims for me."

The issue for computer manufacturers is not making things too technical or specific, but passing the responsibility of the 'computer guy' like me. 'I have complete documentation, but if you can't work out something, then hire a local,' like Clarke says.

Clarke says the problem is making such decisions based on a local like Clarke more difficult. It's hardware/hardware consisting new based in Toronto, Ontario that can be a business in answering each client's primary question: "What's the right computer for my needs?"

Clarke says the basic decision is between board-based and custom-built units. More off-the-shelf consumer systems for those who can reasonably predict how they'll be using the system for the next three years like savings "windfall" types of a computer and hardware units for those who are unsure about their choices in future needs.

When purchasing a custom-built unit, you'll need to be very clear about what you want. That

has both a "producer side" and a "customer side" says Clarke. In the former, if you can't provide what you want to do on your new machine the custom builder can load the highest quality component that will fit both your needs and your budget. In the second, developing a great relationship with a custom builder "very prove to be valuable should you can later decide to go to the future," according to Clarke.

Board-based units on the other hand consist of lots of hardware, good warranties and, of course—bad lifespan listed on the basis of the box. They also come with more software than you, if (possibly) ever use much or all of it without upgrades or with only limited support. The bundled software may also conflict with the software you really like—wiring up to one which seems to be facing considerable periods of downtime, sorting out the conflicts. And, while the new power-based system may look very impressive just sitting there on your desk, you don't get the big bonus for another party that did your

Contracting out your search to a consultant like Ed Clarke doesn't mean eliminating responsibility for your eventual purchase. But only will you need to be able to articulate your computing needs to someone like him, it will take to

be responsible for deciding whether that person deserves your business and your trust.

asking questions like, "What's your technical background?" "How long have you been in business?" and "Can I talk to some of your previous clients?" would be taken away by a consultant who's been in business for you. You'll probably have a better working relationship with the consultant than if he's heard one second project and business

Police don't everything

What advice does the custom builder have for the savvy Computer Buyer? Don't Forget to Research Software in Scarborough, Ontario advises his clients not to cut corners but to get what seems to be a good price. He makes a home office/small business professional so the expected outcome is a system that will "pay itself back in the business day," he says.

He cautions his clients to stick to the details when easily driven a system's price by negotiating that it be sufficient. But having enough as an effort to save \$100 or \$200 will cost you later on because your business will have to absorb the implications of a primary system not functioning or functioning poorly.

Alan Thwaites is a business writer. He can be reached at alan@thwaites.com •

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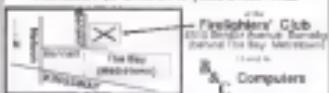


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Holiday info by Net

Gifts to buy, food to prepare, decorations to hang... when holiday panic threatens to descend, help is just a mouse click away. Internet holiday sites abound, ready to assist as you cleaver to complete your to-do list!

By MARGARET MANGANO •

Toy hunting

Can't quite decide what's right for the kids people in your family? Dr. Lawrence Auerbach, director for Childhood Research in San Francisco, rates the top 100 toys—com-

plete with target age, price, and safety numbers for further inquiry.

Search for the perfect gift for soldiers or school-age children, or between Dr. Toy's ratings for last vacation products. Search a peak at the list of toy buying tips—for instance, will the toy stimulate creativity or

will it frustrate? Or try Dr. Toy's Rx for Play articles tackle angles from planning a play-space to selecting socially responsible gifts.

The Toys 'R' Us Web site is a handy online catalog replete with categories such as slate, games, puzzles, and model animals. Pictures and product descriptions let you know the cyberpounds before you buy.

Enter the online Kidspot section and bag some budget shopping tips. The 169-page catalog provides lots of ideas for the whole family.

Last-minute gifts?

Thanks to Andy's 101 Christmas Gift Ideas, you won't have the need for hours of last-minute shopping.



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shops. WWW/Shipping: Disney presents 26 large malls and over 50 specialty shops.

And for the older kids' shopping, there's the Mall of Mills, where more than 40 cyber malls show off their wares.

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Toys 'R' Us ... <http://www.trus.com>

has compiled a list with everything but the kitchen sink. How about soap-on-a-rope, several pizzas and cakes, a history change, a hot tooth or maybe a dancing school lesson?

More serious shoppers may want to log on-line, order and pay by telephone and conduct their shopping transactions online. The Comscore Web Index provides its own search engine plus an alphabetical listing of visual

and other kitchens of Mrs. Claus or the Gourmet Recipe page. Browse the menu from a variety of countries, bread, meat, fish, and holiday treats. Straight from the kitchen of the Javas, to the cookie jar, and Happy Hour kitchen for the likes of Nelson and Happy Hourkeeper in the early 1990s—including potent take home cocktails and horseshoe crab lasagna. I suggest

continued on page 67

PointCast brings personalized news to Canada

• By SANDY MCILROY •

With a hot coffee and prints about your appointment books, the sunsets on pointcast. You can decide news headlines by doing with the text, and news headlines are at the top of the screen, while stock prices and sports scores land toward the bottom.

It's not CNN. It's not watching PointCast Canada, a personalized news service provided free of charge by Amstar Information Services. Amstar Canada is designed to bring up-to-date news and information right to the desktop of Internet users as it works on its native newsagent and in a screen saver when your computer is idle. In its debut in the United States in February of this year, PointCast reached a half-million users. The company that originated it there, has one million users. Approximately 2,000 Canadians have downloaded the PointCast Canada software, and the service is expected to bring the total number of Canadian regulars to about 500,000.

Match made in cyberspace

PointCast Canada represents the natural marriage of broadcast and the PC, according to Michael Flanagan, president and general manager of Amstar, Amstar Information Services. "We combined the power of the Internet with the convenience of broadcast media to give Internet users personalized news and information."

Using a personal profile you provide, PointCast Canada can give Internet users the news, sports and finance information you want. This information is stored on your hard disk where it sits and purrs until it's called up, an interesting feature. The news spiders itself as often as you like by connecting to PointCast Canada 24 hours a day.

The information in PointCast Canada is provided by several Canadian companies, including the editors of their Canadian news "Wire" and Canadian Language, a stock reporter and financial news service. PointCast Canada also hopes to deliver radio and television content from the Canadian Broadcasting Corporation in the next few months according to PointCast Canada managing director Rod Geddes, negotiations with the CBC are progressing nicely. Geddes sees "other major content providers" will be announced in the near future.

Perhaps the best feature of PointCast Canada is the price—an 18-month basic service. PointCast makes its money from the advertising that appears along with the content. PointCast provides a feature that Internet can't match, though, the opportunity for consumers to connect directly with advertisers by clicking on the ads.

PC news! Past, present, future!

Although PointCast is in a class by itself right now, it's not the only one of 20 Web sites that claim to provide some form of personalized news services for busy news junkies. The oldest surviving personal news service is probably Journalist. It was designed to enable Computer users to sit and sort through the massive amounts of news and information available on the CompuServe Information Service.

Some other news sources, including the Los Angeles Times and the San Jose Mercury News, provide free news updates by e-mail. Other sites, including Microsoft's

WNBC and the Microsoft Network, encourage users to create a custom home page complete with news, headlines, sports scores and even online stores or keep readers reading books.

Message Communication's new program, In Box Direct, delivers personalized news from

The New York Times, Christian News, Wall Street Journal, Sportsline USA, and other online sources to users of Microsoft Navigator 3.0. In the end most of these personalized news services—including PointCast Canada—will provide what many information junkies already want: an intelligent agent that would search

through all the information available online and bring back only the news they care about.

If you want the news to come to you PointCast Canada is the best choice. As far as I'm concerned, PointCast Canada is the Windows-based trip choice pointcast.ca. A Mac version is expected early in 1997. *

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AOL can't stop junk e-mail

By SANDY MCMURRAY

Junk e-mail—the kind of message that many people receive on a regular basis in their in-boxes. Junk e-mail ranges from get-rich-quick schemes to unsolicited offers of products or services.

According to America Online, junk e-mail is the number one complaint that members AOL, determined that much of the junk sent to its members comes from a few prolific spammers. Internet users that make a business of sending unsolicited, mass commercial e-mail. Some of these companies actually send unsolicited messages offering their services as a "bulk mailing" or "telemarketing" or "list advertising" with the same effect. America Online announced plans to protect its subscribers from unsolicited

unsolicited, mass commercial e-mail. Some of these companies actually send unsolicited messages offering their services as a "bulk mailing" or "telemarketing" or "list advertising" with the same effect. America Online announced plans to protect its subscribers from unsolicited

junk e-mail

Sandy McMurtry/PYTHON READING

Date: 11-05-16 11:29:30Z

From: 182.165.119.109!mail.amsys.com

Reply-to: mailer@amsys.com

No-mail@amsys.com

Hello, I went to e-mail myself that we have the REIT (SP500) available. But were you to take my word for it, you listen to these scumbag customers and call 1-(800) 876-5441...

On January 1, AOL began blocking mail from several domain names including, cyberspace.com, liberty.com, aol.com, msn.com, msn.com, and msn.com.

"We are leader in this new medium," said AOL CEO Steve Case. "We believe the time has come to take proactive measures against these spammers to protect the interests of our members by blocking this annoying and inappropriate use of the medium."

AOL members fed up with junk e-mail could try Junkster, a software program that works with AOL 3.0 software.

Junkster is designed to search the FROM and SUBJECT lines of AOL messages, then delete any mail that contains key words entered by the user. Junkster is available for US\$14.95. Visit Sage Computer Services, send e-mail to sage@softcell.com for more information.

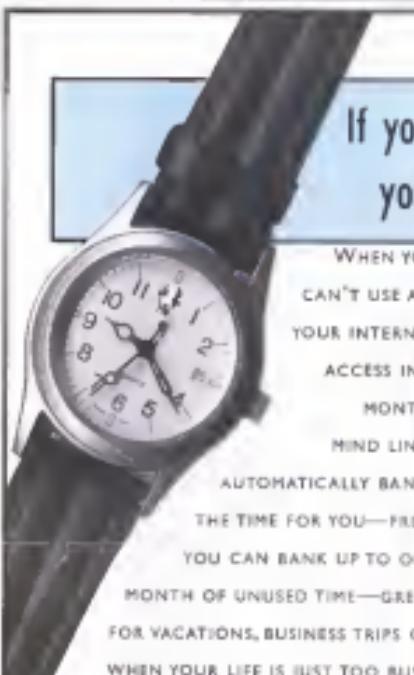
Whipping the tide

The spammers responded the next day. On September 1, AOL's AOL 3.0 was "confused" to block e-mail from Cyber Promotions, which owned some of the affected domains. The law firm representing AOL was named by U.S. District Court Judge Charles Nimmer pending trial in November that will decide the issue.

The Cyber Promotions lawsuit argues that AOL has no right to block Internet and anyone who has not signed Cyber Promotions in legal terms alone.

According to Paul Korchak, a lawyer for Cyber Promotions, the company's messages contain reminders for people who wish to be removed from the company's mailing list. The judge's order tells America Online not to block Cyber Promotions messages to "recipients who wish to receive the mail."

AOL says it will update the court order and is also considering software that would make it possible for individual members to filter their incoming e-mail. *



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The second installment of the series will discuss the World Wide Web, often simply called "the Web."

What is the Web called the World Wide Web? Who runs it? How does the Web differ from the Net? What happens when you can't get to a particular Web site? Are there important differences between one Web browser and the next? As we travel into this new new-world, we'll also define some words and phrases with which you may not be familiar.

The first part of the series deals with electronic mail (usually just shortened to "e-mail"). What are the advantages of e-mail? How does e-mail work? How can a game of e-mail lead to a policy and why does the occasional message go astray? How secure is e-mail? Who runs the e-mail system?

Outs and insides (their sometimes-irreverent names) are also covered in the series. Finally, I'll round out the third installment with a brief discussion of typical e-mail problems (and what you can do about them).

The first entry in this series will cover the Internet and its Newsgroups. What is the Internet and what is it used for? How does the Usenet work? What's the difference between a "moderated" list? How to avoid both when posting a message to a newsgroup "thread."

Sound complicated? Don't worry! By the time you finish this part of the series you'll also understand that it's not either like a tree or between Internet (just) and e-mail (a tree full of college university professors). Of course, there's a particular method to subscribe (and unsubscribe) to a listserve, and after you read the pieces you'll be able to do both with ease.

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Exploring the Internet and the Web

The Internet. Even if you've been on Mars for less than years, you've probably heard those two words more often than anything else. No doubt, you've also heard that everybody's connected to the Internet—from your neighborhood grocery store to your stock broker—everyone's online.

• By DAVID ROSEN •

Let any new technology dictate a bit account of hype and confusion surrounding the Internet. Unfortunately there's an anti-advertising and no easy marketing message in cyberspace that is difficult to summarize from memory. What can the Internet do? More importantly, what can it do for you?

This four-part series on the Internet explores these issues. This first installment will concern itself on the Internet itself: how the Internet was formed, who runs it, how to connect to it and other issues. We'll also explain the key difference between so-called Internet service providers (ISPs) and the commercial online companies including the costs and benefits of each alternative. If you'd like a primer of what's coming up to the series, check out the sidebar entitled, "What is a Web?"

In the beginning

First, a bit of history. The Internet was born in the late 1960s and early 1970s as a project of the US Defense Department. Some who will be the Advanced Research Project Agency (ARPA) by now realize that if it weren't for modems—modem—with each other in a regular book, peace would be completed faster than *Star Trek* without.

About a decade later, the National Science Foundation (NSF) upgraded the existing ARPANET with high-speed connections and began opening up its network to high universities and some corporations, research with research, business, commercial Internet providers (as they became known) were selling services to just about anyone who had the necessary computer or hardware and communications software.

Unfortunately, people soon discovered using

the network was designed for almost nothing—resources and no ordinary speeds. If you didn't know a lot of URLs (and perhaps some obscure computer control languages thrown in for good measure) you were at a tough dog.

Enter capitalism. The Internet became popular only with the release of easy-to-use mostly-free software. Since the software revolutionized the world's Internet, it has moved quickly from the necessary world wide to the commercial world wide. We're talking about Web servers such

as products such as Netscape Navigator and the Microsoft Internet Explorer and more.

Today the Internet is a vast number of individual computer networks all linked together. Those people think of the Internet as a large patchwork quilt. Each square in the quilt represents an individual network of computers on the Internet, each which represents an individual computer—computer within each network.

This means the Internet is massive. By some

continued on page 72

Your Own Web Site

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Exploring the Internet

CONTINUED FROM PAGE 71

enables the Internet connects thousands of individual networks and some 60 million personal computers. An income in non-commercial there's really only one charge and there's no "head office" of the Internet...at least not in a way we commonly think of head offices.

Bring on the Web

This is both good news and bad news. Due to its decentralized design and operation the Internet is fairly difficult to regulate (in fact, one of the US Defense Department's original design parameters was that the Internet should be able to survive a nuclear attack). The bad news is, there's suddenly no charge and nobody to blame if a design goes wrong. Critics of the Internet argue that this openness and lack of centralized control will lead to an increased death rate due to it crashing on its own weight.

If you want to connect to the Internet...and you know there's no "head office" what do you do? Well, you have two choices: either choose "you" can either connect to the Internet using a commercial online service such as America Online or CompuServe (or "go direct" to the Web through one of the growing number of Internet service providers (ISPs) that offer commercial online services first.

As you read this article, there are four major commercial online service providers in order of size they are America Online (AOL), CompuServe, Microsoft Network (MSN) and Prodigy. All four services offer

a good community model in which you can get news, mail, messaging, games and download services, news and chat rooms with others within the service itself.

All four also provide Internet access through their own software. Until recently all four were priced identically at US\$97.95 per month for the first five hours of usage and US\$2.95 per hour thereafter with a few high-use options. Both AOL and MSN recently changed their prices—and CompuServe's is changing—so call them before you sign up (see Commercial Online Providers sidebar).

CompuServe also charges premium rates for accessing its business databases and other services described below.

America Online (Gaining on its 7 million members AOL is the largest by far of the commercial online providers (as of late AOL is larger than the others). Other AOL users can download AOL's available for DOS, Windows and Mac users. It's a good place to start if you're new to cyberspace since it's 24-hour help and lots of user manual.

AOL has a freeware feature it's pretty simple to use and has a lot of user-friendly features. Its online service providers were the most prolific AOL is the world's third.

CompuServe, unlike AOL, CompuServe has traditionally appealed to technology-savvy computer people (aka "computer geeks"). Novices however CompuServe is targeted mostly in small or average-sized business people although it has made its website broader into the consumer market.

From the beginning, CompuServe users have had to deal with modems and user IDs such as "759000000" (AOL, MSN and Prodigy all let people select their own user names using real English words, such as "Smart One" or "Fastdog45").

CompuServe's strength is its user interface. For an individual—and often help—charge you can access some impressive databases from the comfort of your own keyboard.

Afterglow! Network The Microsoft Network has just undergone a major facelift and is now on the Internet. When it was launched, it was the first online commercial service that claimed to be a family destination. To reinforce that claim, there were automated dials that would indicate consumers aged specific service when you logon; CompuServe had never done this.

Those who log on and sign on board the service profit much of their time, however. AOL has continued user numbers in the service steadily since it began.

Finally, since AOL is run by Microsoft, you probably never saw a Mac version of the software.

Prodigy's strength is in its developer

base. A few years ago it was the premier service for amateur modeling by the amateur modelers. Additionally most ISPs are local associations without many people members in rural, sparsely populated areas. If you were to go to get online with an ISP you will pay off long distance, a very expensive proposition, especially outside North America.

using one of the big four commercial online providers you pay for software itself if you know what you're doing (or are willing to exchange a little frustration and time for money) an Internet service provider may be just what you're looking for.

It's not surprising to see these four dozen of ISPs currently operating in Canada—without counting every day you can check out the prices and services of these companies by browsing through the pages of this publication.

It's not surprising to see these four dozen of ISPs currently operating in Canada—without counting every day you can check out the prices and services of these companies by browsing through the pages of this publication.

The closing comment, the industry is changing rapidly and the big boys are moving in to buy smaller ISPs have closed and others have consolidated with many smaller, locally owned companies.

That being said, even elements of CompuServe are profitably marketing the Internet with a local ISP. If you're in for online for extended periods of time—say 30 hours a month or more—the difference in fees between a commercial service provider and an ISP will be substantial. Additionally most ISPs are local associations without many people members in rural, sparsely populated areas. If you were to go to get online with an ISP you will pay off long distance, a very expensive proposition, especially outside North America.

Next issue: The Wonderful World Wide Web.

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